

## Short cuts for identifying slope and y-intercept

To find the slope and y-intercept of a linear equation in standard form..... $Ax+By=C$

$$\text{Slope} = \frac{-1 \cdot A}{B}$$

$$\text{y-int} = \frac{C}{B}$$

Ex: Identify the slope and y-int

$$\textcircled{1} \quad -8x + 7y = 25$$

$$\text{Slope} = \frac{-1 \cdot -8}{7} = \frac{8}{7}$$

$$\text{y-int} = \frac{25}{7}$$

$$\textcircled{2} \quad 4x - 8y = 22$$

$$\text{Slope} = \frac{-1 \cdot 4}{-8} = \frac{-4}{-8} = \frac{1}{2}$$

$$y\text{-int} = \frac{22}{-8} = -\frac{11}{4}$$